

Operating Permit - DENIAL

217/782-2113

Application No.: 84080076

I.D. No.: 031006ABH

Applicant's Designation: EAGLE-PIFCO

Received: August 28, 1984

Operation of: PIFCO-DISTRUCTIVE DISTILLATION UNIT

Location: 7710 West 57th Street, Summit, IL

Application No.: 84080077

I.D. No.: 031276ABP

Applicant's Designation: ROSEMONT

Received: August 28, 1984

Operation of: PIFCO-DISTRUCTIVE DISTILLATION UNIT

Location: 5995 North River Rd, Rosemont, IL

Application No.: 84080078

I.D. No.: 031174ABP

Applicant's Designation: STATE OF ILLINOIS

Received: August 28, 1984

Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT

Location: State of Illinois Maintenance Facility, McCook, IL

Application No.: 84080079

I.D. No.: 031174AB0

Applicant's Designation: J's SEMI

Received: August 28, T984

Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT

Location: 8765 West Joliet Street, McCook, IL

Application No.: 84080080

I.D. No.: 03104BABB

Applicant's Designation: LIVCO-PIFCO

Received: August 28, T984

Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT Location: 6700 West 103rd Street, Chicago Ridge, IL

Application No.: 84080081

I.D. No.: 031126AAQ

Applicant's Designation: GEMINI-PIFCO

Received: August 28, T984

Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT

Location: 6201 South East Ave., Hodgkins, IL

DLPC Site: 1430050005

County: Peoria

Name of Site: Process & Industrial Fabrication Co.

Log No: 1984-802

Date Received: August 24, 1984

EPA Region 5 Records Ctr.

358578

Illinois Environmental Protection Agency 2200 Churchill Road. Springfield, IL 62706

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October 31, 1984

Process & Industrial Fabrication Company P.O. Box 446 Brimfield, IL 61517

Attention: Calvin J. Bragg B. S. Ch. E.

The preceding listed permit application(s) is/are DENIED because the application fails to show compliance with Section 39(a) of the Environmental Protection Act, 1981 Ill. Rev. Stat. Ch. 111 1/2, Section 1001 et seq. Section 39(a) requires that the applicant provide as part of its application "proof... that the facility, equipment, vehicle, vessel, or aircraft will not cause a violation of this Act or of regulations hereunder." The Agency is unable, based upon the pending application, to determine whether the applicant has submitted adequate proof due to the following informational deficiencies which were sent to you in the September 20, 1984 REQUEST FOR ADDITIONAL INFORMATION letter.

35 Ill. Adm. Code 201.157 (formerly Rule 103(b)(3)) specifies minimum data and information to be contained in an operating permit application. As your permit application did not contain this information, the Agency could not determine compliance with the Act and Regulations.

Specifically, the following information must be provided in order for the Agency to determine compliance of your PIFCO-DESTRUCTIVE DISTILLATION UNIT with the Regulations:

- During the meeting on Friday, September 7, 1984 it was disclosed that all film chips were to be treated at a single site in Rosemont Illinois. Please submit a letter requesting the deletion of the other sites and provide a plot plan for the new site in Rosemont.
- (2) A dimensioned drawing of the PIFCO Unit should be submitted as part of the application.
- A material and energy balance of the system should be submitted as part of the operation.
- (4) An operational description of the unit shall be provided including emission monitoring procedures and equipment.
- (5) A compliance demonstration plan shall be submitted with a detailed startup and emission testing program. It shall specify at a minimum the following information:



Page 3

- a. Schedule for startup and testing program.
- b. Total amount of film chips to be used for the purpose of demonstrating compliance.
- c. Startup feed rates.
- d. Testing and analysis methods for particulates and carbon monoxide.
- e. Commercial operation is to begin only after review and approval of the emission test results.

In addition, the Agency had noted several other deficiencies which were presented to you in writting during the September 7, 1984 meeting. A list of these is reported for your information in reapplying but it does not necessarily include all such deficiencies, even in the information which has been submitted, because the Agency has not conducted a complete review due to the application's informational deficiencies noted above:

- (1) Please provide the following information:
 - A. Signatures of the owner, operator, and professional engineer.
 - B. A topographical map and a 100-year flood map for each site that will be treated.
 - C. The hours of operation.
 - D. The number and duties of employees.
 - E. The precautions for explosion or spills.
 - F. The methods to control dust and odors -- describe protection from wind.
 - G. Daily clean-up procedures.
- (2) Where will the incinerator sit? Please show the place on a map.
- (3) Please describe what alarms and fire fighting equipment will be used to stop or prevent explosions.
- (4) Please provide a description of and a plan sheet showing the following:
 - A. Any primary or secondary containment control systems.
 - B. Storm sewers and provisions for preventing or managing run-on and run-off.
- (5) Please provide the inspection procedures and schedules for your incinerating unit.

Page 4

- (6) Please provide the following information:
 - A. A cost estimate and financial assurance for closure and post-closure of site.
 - B. How will you prevent contaminated water from entering the sewer sytem?
 - C. Where will the soil, wash and blacktop waste from the clean-up go?
 - D. What will happen to the storage trailers?
 - E. How will you get the trailers to the incinerating unit?
- (7) Please provide engineering diagrams and information on the following:
 - A. High-VAR air transport system.
 - B. Portable lighting system.
 - C. Trailer-mounted destructive distillation system.

The Agency will be pleased to conduct a complete review upon receipt of (a) new application(s) containing all necessary information.

If you have any questions concerning this letter, please contact Marla Laymon, DLPC, 217/782-6760 or Jim Cobb, DAPC, 217/782-2113.

Lawrence W. Eastep, P.E., Magager

Permit Section

Division of Land Pollution Control

Bharat Mathur, P.E.

Manager, Permit Section

Division of Air Pollution Control

LE:BM:JDC:st:2190d/29-32

cc: Region 1 - DAPC

Northern Region-DLPC

calculation sheet

CALCULATION	SHEET
Facility Process Indish Tubricity Co Chience Ridge	1.D. <u>031 048 ABB</u>
Anal. Eng. Jim Chb Date 16 18 Sf	PN <u>\$408 6086</u>
Rev. Eng Date	Date Rec. <u>08 28 54</u>
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The soft 7, 10/54 mety 7, 10/54 mety 7, 10/54 mety 12, 10/54 menter has produced to the produc	Total uni given that
Sochie let is secommended the Showing in complete with application of the solution of the sol	Liters application be DLPC in Lathur to Gently Lecture of 35 IL Adm Cede. Youndy Rule 102, 2030) \$206(6

IL 532-0262 APC 268 3/80 Sheet _____ of ____

Tracking Form - LA

Projects Initiated at Time of Receipt of Application

PRO	JECT NAME: Process	8 Indi	strial	Fahri	cation	∨ Co
APP	LICANT CONTACT PERSON/	PHONE NUM	BER: Lewi	S Am	brose	
AGE	NCY (LEAD) COORDINATOR	La				-
DIV	ISIONAL ASSIGNMENTS:	8/24/84 APC	8/24/84 LPC	PWS	WPC	OTHER
				SCHED	_	ACTUAL
1.	Application Received	By:				
	APC LPC PWS	WPC				
2.	Notice Sent to Other	Divisions	-			8/a8
3.	Meeting to Review Com and Identify Problems	-				9/15
4.	Initial Action -		•			9/15
	- Review and F					<u>'//</u>
	- Notice of Ir	completen	ess		 	9/15
5.	Interim Review -					
6.	Public Participation	-				
	- Not Applicat	ole				
	- Applicable					
	a. Public Notice Ser	nt -				
	b. Hearing Held -					
7.	Final Review Meeting					
8.	Final Action -					
	- Issue Permi	t				11/5/84

cc: Manager of Environmental Programs

APC Permit Section Manager LPC Permit Section Manager

PWS Permit Section Manager

WPC Permit Section Manager

Process & Industrial Fabrication Company 6100 S.W. Washington Street Bartonville, Illinois 61607

Re:

APC-206

Preliminary Inquiry for an Air Pollution Permit

Subject: Description of PIFCO's Destructive Distillation Unit

for Degradation of the Cyanide Tainted Film Chips

Attached is a schematic of the proposed system PIFCO is offering for the destruction of the cyanide tainted film chips. The peripheral feed equipment for the transport of the chips to the feed hopper consists of a Hi-Vac Air Transport System with a Ultra Fine Filtration System for the exit air, having an approximate one (1) micron absolute removal rating.

This equipment is depicted by the Chip-Scoop vacuum unit, the feed hopper and top-mounted filter system to clean up the air prior to incinerating any possible cyanide vapor picked-up by the transport air.

The feed hopper has high and low level controls which activate the vacuum system when the feed hopper is low and shuts off when the hopper is full. Chips are gravity fed to the feed ram cavity and the ram is time activated (strokes per minute) to control the feed rate to the high temperature conversion section to under-go destructive distillation.

For start-up purposes the conversion section is heated to approximately 900°F using LPG. Feed is introduced to the unit via the feed ram and the material starts to decompose producing a solid char and a producer gas (CO and hydrogen). The latter is fed to the conversion unit to bring the unit to operating temperature, at which time the LPG is backed-out and fed only to the flare stack pilot gas ring.

As the temperature is raised to the operating set point, the feed rate to the unit is increased to the pre-determined level. The producer gas produced from the decomposition of the film base as stated previously, is back fed to the converter to maintain the temperature set point. This normally takes approximately 15 to 25% of the total gas produced. The remainder of the gas is fed to the flare stack for total combustion.

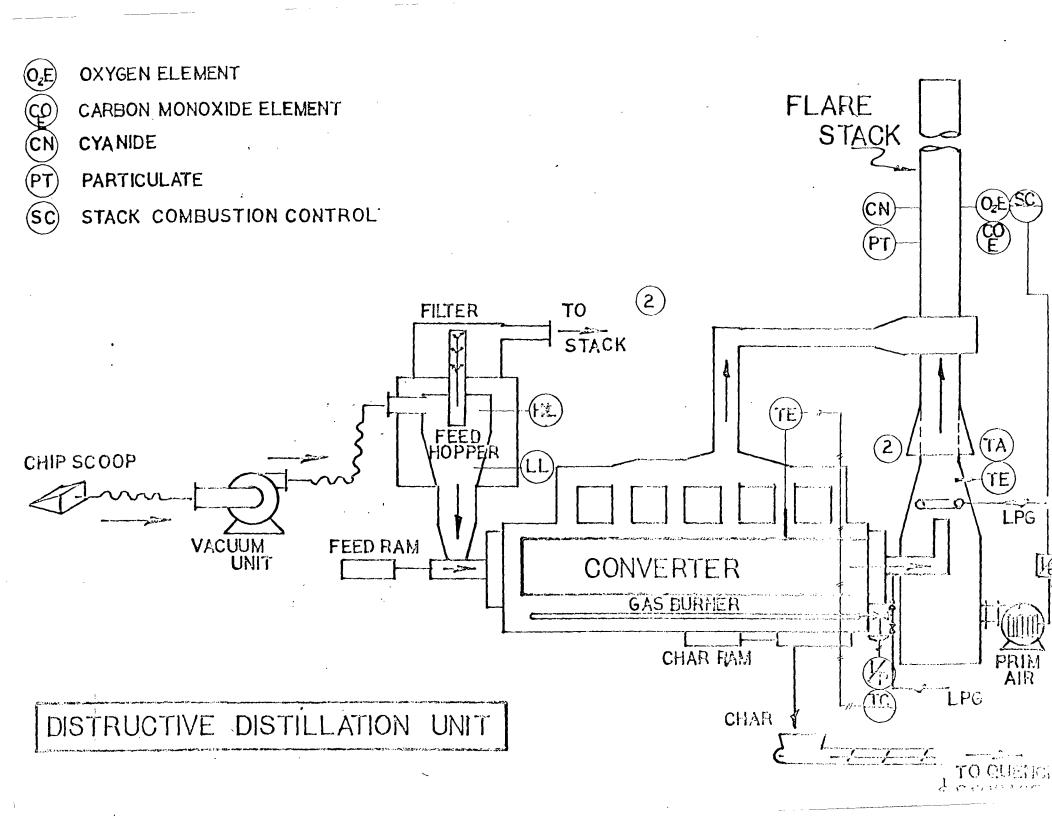
Process & Industrial Fabrication Company APC-206 Page 2

The cyanide, if not decomposed in the conversion section, will be converted to carbon dioxide and nitrogen. The kinetic combustion constant for the C-N bond is 10 to the 12th power and at this high rate constant, the C-N bond will only exit in a flame front for several micro seconds at most. In a separate section of this proposal packet is a discussion of the experimental data using a sample of actual chips to confirm the basic design hypothesis. Film chips have been processed in a similar unit and experimental data was developed using the actual chips to confirm the calculated cyanide levels in the effluent streams.

The producer gas is introduced to the flare stack for final combustion. The flare stack is to be monitored and controlled for CO and oxygen, combustion control loop. The stack is also monitored for cyanide with manual feed back (corrective action if too high) and for particulate levels with manual feed back.

Char is removed from the unit via the char hydraulic ram located on the bottom side forward end of the conversion section. The char drops into a conveyor to a storage area where the material is impounded until a cyanide analysis has been completed on the composite sample. The char batch is released for disposal if the cyanide level is 5 ppm or less. Any off-spec char can be recycled to the conversion section for additional thermal processing.

For any additional information or clarification of any item or area, please contact Mr. C. J. Bragg at the above location; telephone number (307) 697-9518 or (312) 748-7200.





RECEIVED AUG 24 1984

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information unfill lillinois Revised Statutes, 1979, Chapter III 1/2, Section 11.1. Discioure of this information is required under that Section. Railure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Canter.

JE D	ΑГ	ш	PC.

FOR AGENCY USE ONLY APPLICATION FOR A PERMITAN I. D. NO. □ OPERATE CONSTRUCT PERMIT NO. MAME OF EQUIPMENT TO SE DATE CONSTRUCTED OR CREPATED PIFCO - DESTRUCTIVE DISTILIATION NAME OF OWNER: Bal MAME OF CPERATOR: PROCESS & INDUSTRIAL FABRICATION COMPANY 13. STREET ADDRESS OF OWNER: SIN. WASHINGTON STREET PARTONVILLE CITY OF OWNER: 16. STATE OF OWNER: ie. ZIP CODE: 2d. STATE OF OPERATOR: 2e. ZIP CODE: __LLINOIS 61607 NAME OF CORPORATE DIVISION OR PLANT: STREET ADDRESS OF EMISSION SOURCE: LIVCO TRAILER LEASING <u>6700 WEST 103RD STREET</u> CITY OF EMISSION SOURCE: 3g. ZIP CODE: 3d. LOCATED WITHIN CITY TOWNSHIP: LIMITS: CHICAGO RIDGE . COOK YES - NO ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL) 5. TELEPHONE NUMBER FOR AGENCY TO CALL: C. J. BRAGG <u> 748-7200/(309) 697-9518</u> YOUR DESIGNATION FOR THIS APPLICATION: (C) ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) 🔀 OPERATOR EMISSION SOURCE LIVCO - PIFCO JOWNER: THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND RURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT. BY AFFIXING HIS SIGNATURE HERETO'HE FURTHER CERTIFIES THAT HE IS AUTHORIZED TO EXECUTE THIS APPLICATION. AUTHORIZED SIGNATURE(S):(a) SIGNATURE CALVIN J. BRAGG TYPED OR PRINTED NAME OF SIGNER TYPED OR PRINTED NAME OF SIGNER PRESIDENT TTLE OF SIGNER TITLE OF SIGNER

- (A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY ONLY BE USED TO REDUEST ONE TYPE OF PERMIT CONSTRUCTION OR OPERATION AND NOT BOTH.
- (3) ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS NAME WILL APPEAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY OTHER APPLICABLE FORMS AND INFORMATION.
- (C) PROVICE A DESIGNATION IN ITEM 7 ABOVE WHICH YOU WOULD LIKE THE AGENCY TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS.
- (D) THIS APPLICATION MUST 3E SIGNED IN ACCORDANCE WITH PCB REGS., CHAPTER 2, PART 1, RULE 103(a)(4) OR 103(b)(5) WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

9.	DOES THIS APPLICATION COMMAN A PLOT PLAN/MAP	•
	YES NO	
	IF A PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:	ADDLICATION: NUMBER
	AGENCY I.D. NUMBER	APPLICATION NUMBER
	TYES THO: SPECIFY ACRES	AL:
10.	DOES THIS APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S) T	HAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE
10.	X YES NO	THE PROCESSION CONTRACT NETWORKS CONTRACT TO CONTRACT.
lla.	WAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, OWNED OR CONTRACTED FOR, BY THE APPLICANT PRIOR TO APRIL 14, 1972:	116. HAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, NOT PREVIOUSLY RECEIVED AN OPERATING PERMIT:
	YES 🖄 NO	Ģ YES ☐ NO
	IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT A, THAT: (d) LISTS OR DESCRIBES THE EQUIPMENT (b) STATES WHETHER THE EQUIPMENT WAS IN COMPLIANCE WITH THE RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION PRIOR TO APRIL 14, 1972.	IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT B, THAT: (a) LISTS OR DESCRIBES THE EQUIPMENT (b) STATES WHETHER THE EQUIPMENT (i) IS ORIGINAL OR ADDITIONAL EQUIPMENT (ii). REPLACES EXISTING EQUIPMENT, OR (iii) MODIFIES EXISTING EQUIPMENT (c) PROVIDES THE ANTICIPATED OR ACTUAL DATES OF THE COMMENCEMENT OF CONSTRUCTION AND THE START-UP OF THE EQUIPMENT
12.	. IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY G	RANTED PERMIT(S), HAS FORM APC-210. "DATA AND INFORMATION
	INCORPORATION BY REFERENCE" BEEN COMPLETED.	
	☐ YES ☐ NO	
	13. DOES THE STARTUP OF AN EMISSION SOURCE COVERED BY THIS A APPLICABLE STANDARDS:	APPLICATION PRODUCE AIR CONTAMINANT EMISSION IN EXCESS OF
	YES NO	
	IF "YES," HAS FORM APC-203, "OPERATION DURING STARTUP" B	een completed for this source:
	YES NO	
	14. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN E	MISSION SOURCE DURING MALFUNCTIONS OR BREAKDOWNS:
۲	TYES NO IF "YES," HAS FORM APC-204, "OPERATION DURING MALFUNCT	SONE AND DREAKDOWN!! DEEN CONDUCTED FOR THIS COURCE
ONLY	TYES THO	TOTA AND BREAKDOWN BEEN COMPLETED FOR THIS SOURCE:
=	15. IS AN EMISSION SOURCE COVERED BY THIS APPLICATION SUBJECT	TTO A FUTURE COMPLIANCE DATE:
PER	☐ YES ☐ NO	The first comment to bridge.
Ş	IF "YES," HAS FORM APC-202, "COMPLIANCE PROGRAM & PROJE	ECT COMPLETION SCHEDULE, " BEEN COMPLETED FOR THIS SOURCE:
ΑĬΙΙ	YES NO	
OPERATING PERMIT	16. DOES THE FACILITY COVERED BY THIS APPLICATION REQUIRE AN ACTION PLANS):	EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE
Ö.	T YES NO	
APPLICATION FOR	17. WAS THIS OPERATION THE SUBJECT OF A VARIANCE PETITION FIL	ED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE
A II (JUNE 13, 1972:	
) H	☐ YES NO	
APP	IF "YES," CITE: PCB NUMBER(S), DA	TE OF BOARD ORDER
	WAS CONSTRUCTION OR MODIFICATION OF EQUIPMENT, SUFFICE GOVERNING THE CONTROL OF AIR POLLUTION" EFFECTIVE PRICE	CIENT TO ACHIEVE COMPLIANCE WITH THE "RULES AND REGULATIONS OR TO APRIL 14, 1972, COMMENCED PRIOR TO APRIL 14, 1972:
	TIYES NO	
	IF "YES," EXPLAIN IN DETAIL, AND IDENTIFY EXPLANATION AS	EXHIBIT D.
18	LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION	
, 5.	NUMBERS ON EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSAR'	Y):
		•
	·	

TOTAL NUMBER OF PAGES ____

PROCESS & INDUSTRIAL FABRICATION GO.

MAILING ADDRESS P.O. Box 446 • Brimfield, Illinois 61517 FABRICATION FACILITY

6100 S.W. Washington St. • Bartonville, Illinois 61607

PH. 309-697-9518

A.S.M.E.-A.-U.-P.P. Pressure Code Fabrication

Systems Design Module & Skid Mounting Oil Reclamation Systems Control Panels

August 23, 1984

RECEIVED

AUG 24 1984

JEPA-DLPC

Mr. William Child Deputy Division Manager Land Pollution Control Illinois Environmental Protection Agency Permit Section - Land & Air 2200 Churchill Road Springfield, Illinois 62706

Subject: Permit Forms for Air and Land Pollution Control for Process & Industrial Fabrication Company's Proposal

for the Cyanide Tainted Film Chips Disposal

Dear Sir,

Attached please find two (2) copies of the Air and Land Pollution Control completed forms.

The financial assurance referred to in the Land section is the normal bond required by any operator or construction company while doing business on a site.

Due to the shortage of time alloted for the completion of these forms, I am assuming that there are some omissions in this initial presentation. If clarification of any areas are required, please do not hesitate to contact me and I will up-date and resubmit any section necessary in a more detailed manner.

Sincerely,

CJB/rm encl. vec



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

TELEPHONE (2:7) 762-58(2

NAME OF FACILITY LIVCO TRAILER SERVICE	TON EPISODE AC	DATE:	8/23/34
LOCATION OF FACILITY " STREET: 6700 WEST 103RD STREET	CITY OR TOWNSHIP: CHICAGO RIDGE	COUNT	
MAILING ADDRESS - STREET OR BOX NO.:	CITY:	STATE	AND ZIP:
PERSON TO BE NOTIFIED DURING EPISODE:	TITUE:	OFFICE PHONE:	HOME PHONE:
1. C. J. BRAGG	PRESIDENT	(312) 748-7200	(312) 735-8261
2. J. LARUE	VICE PRESIDENT	(307) 697-9518	(307) 694-6683
3 L. AMBROSE	PROJECT MANAGER	(312) 825-3197	(312) 825-3197
The general operations is for heating to ca 1400°F in the and the film base to gased (incinerated). The source of emissions is continuously for excess air analysis. The second source to be morthly the film base. This will is sample.	de contaminated film charces for which an action pla or the destructive dist e absence of air, decom us products which are t the flare stack which r control and for parti	rillation of film chaposing the cyanide then burned in a "film will be monitored iculate matter by so	radical lare stack" for CO tack
	S in S II	his Agency is authorized to require this tatutes, 1975, Chapter 111-1-2, Sect formation is required, Failure to do so 10,000 00 and an auditional civil pense failure continues, a fine up to \$1,00 ear. This form has been approved by the	tion 1010 Disclosure of this may result in a civil behalty up to olly up to \$1,000 00 for each day 0 00 and imprisonment up to one
PERSON TO BE CONTACTED FOR FURTHER INFORMATION REGARDING THIS PLAN: SIGNATURE: The undersigned hereby submits its episode action Control Regulations amended April 19, 1976 and certifies that the emission reduction actions which will be taken in the event of a	(Name) on plan in accordance with Rule 404 (the statements contained herein are true.		
OWNER OF FACILITY	OPERATOR C	OF FACILITY (If other than own	eri
Name (printed)	Name (printed)	

L HAPLE U	r racicili	
}	THE ACTIO	EPISODE ACTION PROGRAM INSTITUTE BELOW WILL BE TAKEN WHENEVER EPISODE STACES AND POLITANTS OCCUR IN THE COMBINATIONS INDICATED.* (CYPENG PRODUCT EPISODES BOTH S AND PLACTIONS WILL BE TAKEN.)
STAGE	POLLUTANTS	ACTIONS FEOTIRED OF ALL FURTETIES
YRE Y	CNP	NO REFUSE BURNING CONDUCTED. NO REFUSE BURNING CONDUCTED OTHER THAN IN INCINERATORS MEETING ILLINOIS EMISSION STANDARDS (FOR APPLICABLE POLLUTANT) AND
λĒ	0	DURING HOURS OF NOON TO 4 PM (OR OTHER HOURS AS ANNOUNCED BY ILLINOIS EPA). NO BUILDINGS HEATED TO MORE THAN 65°F OR AIR CONDITIONED TO LESS THAN 80°F. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO FLEET VEHICLES DISPATCHED AFTER DECLARATION OF ALERT AND MOME OPERATED ON SECOND AND SUBSEQUENT DAYS OF ALERT. (EXCEPT
, RE	CNP	AS AUTHORIZED BY EPISODE REGULATIONS.) NO ELECTRICITY USED FOR DECORATIVE OR ADVERTISING PURPOSES. NO GASOLINE OR OTHER VOLATILE ORGANIC MATERIAL IN EXCESS OF 250 GALLONS LOADED OR RECEIVED. NO REFUSE BURNING CONDUCTED.
E	NSP	NO BUILDINGS HEATED TO MORE THAN 65°F. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO ELECTRICITY USED UNNECESSARILY SUCH AS FOR DECORATIVE, AMUSEMENT OR ADVERTISING PURPOSES.
Ξ	OCNSP	NO MOTOR VEHICLES OPERATED OR MANUFACTURING CONDUCTED. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO FACILITY OF ACTIVITY LISTED IN ENGROUNCY SECTION OF PRICODE REGULATIONS GEFRATED.
STAGE	POLLUTANTS	DETAILED DESCRIPTION OF ADDITIONAL ACTIONS PROPERTY OF THIS PROPERTY
YRE	CP	Check calibration of monitor for true level of CO, if in good working order, then adjust the excess air level of the flare stack.
		Secondly, check feed rate to unit; if high back-off, if temperature in the destructive distillation zone is too high, back-off to set point or re-establish lower set point of operation.
		Third operation, check for the feed rate of the film chips to the destructive distillation unit. If high, establish set point rate. If level is too high, back-off and establish new feed level.
E	CP	Go to 50% of set point feed rate to maintain unit operation and re-establish design parameters and slowly bring unit back to set point feed rate in steps to maintain <500 ppm CO.
:		
:		



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2206 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under microid Revised Statutes, 1979. Chapter 111-172, Section 1939. Disclosure of this information is required under that Section Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

٠	ATAG	AND	INFORMATION

PROCESS EMISSION SOURCE

*THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OF AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

į .	NAME OF PLANT OWNER: LIVCO TRAILER SERVICE	 NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3.	STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE:
į	6700 WEST 103RD STREET	 CHICAGO RIDGE, IL.

GENERAL INFO	DRMATION
5. NAME OF PROCESS: DESTRICTIVE DISTILIATION UNIT	6. NAME OF EMISSION SOURCE EQUIPMENT: FLARE STACK (PORTABLE)
7. EMISSION SOURCE EQUIPMENT MANUFACTURER: PROCESS & INDUSTRIAL FABRICATION COMPANY	8. MODEL NUMBER: 9. SERIAL NUMBER: PIFCO TAG #1
10. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: YES - ATTACHED 11. IDENTITY(S) OF ANY SIMILAR SOURCE(S) AT THE PLANT OR PREMISES APPLICATION, IDENTIFY THE APPLICATION): N/A	NOT COVERED BY THE FORM (IF THE SOURCE IS COVERED BY ANOTHER
12. AVERAGE OPERATING TIME OF EMISSION SOURCE: WKS/YR DAYS/WK WKS/YR	13. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK VARIABLEYR
14. PERCENT OF ANNUAL THROUGHPUT: N/A DEC-FEB % MAR-MAY % JUN	-AUG% SEPT-NOV%

INSTRUCTIONS

- I. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION.
- 2. COMPLETE THE RAW MATERIAL, PRODUCT, WASTE MATERIAL, AND FUEL USAGE SECTIONS FOR THE PARTICULAR SOURCE EQUIPMENT. COMPOSITIONS OF MATERIALS MUST BE SUFFICIENTLY DETAILED TO ALLOW DETERMINATION OF THE NATURE AND QUANTITY OF POTENTIAL EMISSIONS. IN PARTICULAR, THE COMPOSITION OF PAINTS, INKS, ETC., AND ANY SOLVENTS MUST BE FULLY DETAILED.
- 3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
- 4. OPERATING TIME AND CERTAIN OTHER ITEMS REQUIRE BOTH A VERAGE AND MAXIMUM VALUES.
- 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR PERRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD.

AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME.

AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE <u>GREATEST</u> VALUE <u>ATTAINABLE</u> OR <u>ATTAINED</u> FROM THE <u>EMISSION SOURCE</u>, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE <u>EMISSION SOURCE</u>. SPECIFICALLY:

MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD.

MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION.

MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

RAW MATE	rial information			
NAME OF RAW MATERIAL	AVERA PER IDENTICA	GE RATE AL SOURCE	MAXIMUM R PER IDENTICAL	
^{20a} . FILM CHIPS	ь. 3600	LB/HR	3600	L 3/HR
21a.	٥.	L3/HR	: c.	LB/HR
22c.	. 0.	L8/HR	c. ,	L3/HR
23a.	D.	LB/HR	с.	LB/HR
24a	. o.	L3/HR	; c.	75/HK

	PRODUCT INF	PORMATION	•		
NAME OF PRODUCT	:	AVERAGE RAT PER IDENTICAL S		MAXIMI PER IDENTIC	JM RATE AL SOURCE
30°. PRODUCER GAS	:	5. 976_SCFM	LB/HR	! c.	LS/HR
31a.		υ	L3/HR	с.	L3/HR
32a.	;	Ö.	L8/HR	c	LB/HR
33a.		0.	LB/HR	c.	L3/HR
34a.		0.	LB/HR .	с.	L3/HR

name of Waste Material	AVERAGE RATE PER IDENTICAL SOURCE		MAXIMUM RATE PER IDENTICAL SOURCE	
400. CARBON CHAR	ь. 360	L3/HR	c.	L3/H8
410.	. b.	∟3/HR	C.	L3/HR
42a.	b.	LB/HR	с.	LB/HR
43a.	. b.	LB/HR	c.	LB/HR
44a.	, b.	LB/HR	с.	, F9\H8

······································		*FUEL USAGE INFORMATION		
FUEL USED		TYPE	HEAT CONTEN	· · · · · · · · · · · · · · · · · · ·
50a. NATURAL GAS		b	c. 1000 BTU/SCF	
OTHER GAS	X	PRODUCER GAS	554	atu/scf
OIL				3TU/GAI
COAL				37U/L3
OTHER		PROPANE (START-UP)	2358	5TU/L3
AVERAGE FIRING RATE PE		L SOURCE: . e. MAXIMUM F	FIRING RATE PER IDENTICAL SOURCE:	3TU/∺R

^{*}THIS SECTION IS TO BE COMPLETED FOR ANY FUEL USED DIRECTLY IN THE PROCESS EMISSION SOURCE, E.G. GAS IN A DRYER, OR COAL IN A MELT FURNACE.

TEMISSION INFORMATION

51. Number of identical sources (describe as required): $\rm N/A$

AVERAGE OPERATION

CONTAMINANT	concentration or emiss	SION RATE PER IDENTICAL	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
P ARTICULATE	52a.	! o.	с.
MATTER	GR/SCF		
CARBON I MONOXIDE	53a. PPM (VOL)		c.
NITROGEN : OXIDES	54a. 39M (VOL)		; c.
CRGANIC MATERIAL	55a. ??M (YOL)		с,
SULFUR DIOXIDE	۶۶۸۸ (۷۵۱) (۷۵۱)	b	c.
** OTHER (SPECIFY)	57a. PPM (VOL)		c.

MAXIMUM OPERATION

CONTAMINANT		ION <u>OR</u> EMISSION RATE PE	R IDENTICAL	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	.0517	GR/SCF 0.419	5 LE/HR	c.
CARBON MONOXIDE	^{59a} • 50	PPM D.		c. CALIFORNIA RULE 71
nitrogen Oxides	60a. 210	97M (VOL)	- LO/HR	AS NO ₂ CHIMILUMINESCENCE
ORGANIC MATERIAL .	6ia.	ррМ (VOL)	LB/HR	c.
SULFUR DIOXIDE	62a. NIL	PPM b.	LB/HR	С.
** OTHER (SPECIFY):	630.	PPM b. (VOL)	L3/HR	с.

- *ITEMS 52 THROUGH 63 NEED NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

 **"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS
 ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

*** EXHAUST POINT INFORMATION

64. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT:

65.	DESCRIPTION OF EXHAUST POINT (LOCATION IN	RELATION TO BUT	LDINGS	DIRECTION, HOODING, ETC.):	
66.	EXIT HEIGHT ABOVE GRADE:	······································	67.	EXIT DIAMETER:	
ó8.	GREATEST HEIGHT OF NEARBY BUILDINGS:	·	69.	EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:	
		FT.	 -		.57
	AVERAGE OPERATION			MAXIMUM OPERATION	
70.	EXIT GAS TEMPERATURE:		72.	EXIT GAS TEMPERATURE:	
		0,5	<u> </u>		0 <u>= </u>
7ì.	GAS FLOW RATE THROUGH EACH EXIT:		73.	GAS FLOW RATE THROUGH EACH EACH EXIT:	
		10:11	}	`	AUTERA

^{***} THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

A ...

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under trimots. Revised Statutes, 1979, Chapter 111 172, Section 1038, Disclosure, of this information is required under that Section, Facure to do so may prevent this form from being processed and could result in your application being decided. This form has been approved by the forms. Management Center.

* 1	
	FOR AGENCY USE ONLY
DATA AND INFORMATION	
INCINERATOR	
. NAME OF OWNER:	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM GWNER)
LIVCO TRAILER SERVICE 3. STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE:
6700 WEST 103RD STREET	CHICAGO RIDGE, IL.
0,700	
GENERAL	INFORMATION
5. FLOW DIAGRAM DESIGNATIONS OF INCINERATORS DESCRIBED ON THIS FO	RM (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATION
FORM APC-201): SEE ATTACHMENT WITH FORM 220	
6. DESCRIPTION OF SOURCE OF WASTE:	
FILM CHIPS	FOR AGENCY USE ONLY SO NOT COMPLETE THIS SECTION
	4
7. MANUFACTURER OF INCINERATOR:	MANUFACTURER CODE
PROCESS & INDUSTRIAL FABRICATION COMPANY	<u> </u>
8. MODEL NAME AND NUMBER: 9. A FLUE PIFCO TAG #1	SINGLE CHAMBER , MODEL CODE
10. MAXIMUM AMOUNT OF WASTE TO BE INCINERATED:	CAPACITY CODE
	3,240 LB/HR
11. ESTIMATED DAILY AMOUNT OF WASTE TO BE INCINERATED:	PARTICULATE EMISSION FACTOR CODE
	<u>86,430</u> lb
2. HEIGHT OF STACK ABOVE GRADE:	CO EMISSION FACTOR CODE
3. HEIGHT OF TALLEST STRUCTURES WITHIN 150 FEET:	<u> </u>
	VARIOUS FT
14. PRIMARY BURNER USED? YES NO MAX RATING	PRIMARY BURNER CODE BTU/HR
N/A 15. SECONDARY BURNER USED?	SECONDARY BURNER CODE
N/A YES INO MAX RATING	STU/HR
· WA	
DESCRIPTION OF TYPICS	L WASTE TO BE INCINERATED
60. PAPER: b. DRY WGOD:	والمتعال والمتعاول والمتعاول والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض
% BY WT	c. LEATHER, LINOLEUM:
d. RUBBER AND PLASTICS: e. OILS AND PAINTS:	f. STREET AND FLOOR SWEEPINGS:
% BY WT	2 8Y
g. FATS AND MEAT DRESSING: h. GLASS AND CERAMIC	
j. LEAVES, GRASS, BRANCHES, VEGETABLES & FRUITS:	k. GTHER (SPECIFY) producer gas from destructivesy

IL 532-0259 APC 250 Rev. 3/75

for agency use only					
	OPERAT	TONAL INFORMA	110N		
17. AVERAGE OPERATION TIME OF INCINERATOR: N/A		YAG\ZRH	DAYS/WEEK	WKS/YEAR	
17a. MAXIMUM OPERATION TIME OF INCINERATOR-	VARICUS	HRS/DAY	24 DAYS/WEEK	7 WKS/YEAR	
18. PERCENT OF ANNUAL THROUGHPUT: BY SITE DEC/FE3	% /	MAR/MAY	% JUN/AUG	% SEP/NOV	%
· · · · · · · · · · · · · · · · · · ·		SPECIAL NOTES		·	
196. FOR INDUSTRIAL WASTES, COMPLETE COMPONE CONTENT, MUST BE GIVEN IN AN EXHIBIT ATTA	NT AND/OR CH CHED TO THIS .	EMICAL DESCRIPT.	ion including sulfur, ${ m CN}/{ m A}$	hloride, ash, and moiste	JRē
b. THE AGENCY MUST HAVE ON FILE PROOF THAT RULES 203(e) AND 206(b) WHEN BURNING THE W.	THE MAKE AND ASTE, BOTH TY	MODEL INCINER. PE AND RATE, DES	ATOR DESCRIBED HEREIN WILL CRIBED HEREIN.	L MEET THE REQUIREMENTS ()F
c. GAS CLEANING DEVICE? (IF "YES", COMPLETE	APC-260, ENT	ITLED "DATA AND	INFORMATION AIR POLL	UTION CONTROL EQUIPMEN	4T")
d. If located in cook county, submit additi $\mathrm{N/A}$	IONAL PERMIT	APPLICATION PLUS	COOK COUNTY CONSTRUC	CTION PERMIT APPLICATION	
e. Complete APC-103, ENTITLED "DISPOSITION O FORM 103 COMPLETED AND ATTAC	F WASTE MATER	IALS" FOR ASH OF	RESIDUE FROM INCINERATO	DR."	

 0.05 gr/SCF PARTICULATE / <500 ppm CO @ 50% EXCESS AIR (see attached engineering report)

SAN BERNARDING COUNTY AIR POLLUTION CONTROL DISTRICT



172 WEST THIND STREET . SAN BERNARDING, CALIFORNIA 97415

Telephone: (714) 383-1061

January 15, 1975

Mr. George King
Pan American Resources
P. O. Box 481
West Covina, CA 91793

Dear Mr. King:

The results of the source test which were conducted by the Air Pollution Control District source test team at Pan American Resources on November 22, 1974 are as follows:

	RETO	ORT .	FURNACE			
Particulates	Measured	Allowed	Measured	Allowed		
lbs/hr), Grs/SCF	0.4185 0.0517	1.19	0.0441	1.19		
Carbon Monoxide	** .					
mac	100	2,000	320	2,000		

As the above data show, Pan American Resources meets the requirements of the San Bernardino County Air Pollution Control District Rules and Regulations.

A formal engineering report will be completed and a copy forwarded to you in the near future.

Very truly yours,

DONALD M. THOMAS Air Pollution Control Officer

30.

ROBERT'J. HILOVSKY, P.E.

Senior Engineer

mmm·HT.P·TMC



15

BERNAHOINO, CALIFORNIA 122115

SOURCE

מסחלנות לבל

× ; XOX 다 건: <

SYST

CONFIDENTIAL



Pun American Resources burns paper and other dry trash in a closed regenerative system. The reduction of the trash in a closed retort produces a gas which is then burned to produce the heat to cause reduction of the incoming trush. Charcoal is produced as a by-product of the process.

OBJECTIVE

The objective was to determine compliance with San Bernardino Count APCD Rules and Regulations and for engineering information.

RESULTS

The results obtained and their relationship to the Rules and Regulations of the San Bernardino County APCD are shown below.

	Flowrate	NOx	Co	ר אַר אַער אַר אַר אַר אַר אַר אַר אַר אַר	PARTIC MAC	
Source	SCFM (dry)	שמכ	i unit	ומרות	! Mexaured	Allovable
Furnace	259 :	420	340	2,000	0.044 15s/hr	1.18 15s/hr
			; ! ;		0.0198 0e::/SCF	0.20 Crs/SC?
lietor•	971	1 210	50	2,000	0,418	1.18

RECOMMENDATIONS

It is recommended that the permit to operate be issued for this unit, since its emissions meet the limitations of the Gan Bernardino County Rules and Regulations.

SUMMARY: EMISSIONS TO ATMOSPHERE UNFIDENTIAL New Sources and Existing Sources After January 1, 1975

are of Firm -	Pan American Resources			Date Test	Nov.	22, 1974
location	Upland, CA			Page		o£
Type of Operat	ion Incinerator	,5±∞ce	ss Wight	330		bs.
Unit Tested		•				ji
Cas Flow Fate,	SCEM 971					
Gas Temperatur	e, ° 7 500	Measured Enissions			licabl mission	
RUTE 50A	Visible Emissions		Ringelmann	· <u>-</u>	11	_ Ringelma
Rulé 52A	Particulate Matter	0.0517	Grs/SC: (cry)	0.20	_ crs/scr
Rule 52A(a)	Sulfur Compounds as SO2		PPM by Vol.	-	500	_ 524 pt/ /
Rule 53A(b)	Combustion Contaminants		Crs/SCF 9 123 ϖ_2	_	0.1	Crs/SCF 8 123 CC
Aule 54A	Solid Particulate Matter	0.4195	. ⊓22\µz.	-	1:19	_ ibs/nr
ule 58A	Disposal of Sulid and Liquid Wastes (b) 100 lbs/kr		Crs/SCF @ 12% CO ₂	-	0.1	Crs/SCF 123 CO ₂
	(d) 100 lbs/hr		æs/5æ @ 125 නැ	-	0.3	Grs/SCI ² 121 Oc
enje 66	Solvents (reactive hydro- carbons measured as methane)		PPM Inlet PPM Outlet % Conversion Lbs/day	· -	90	_ \ Conver _ ibu/day
Rule 68	Oxides of Nitrogen as NO ₂ (Unit (1775 Million DTU/NE)		PRM 8 38 02 PPM 8 38 02		125	_ 55W 9 3
Fule 71	Carbon 'broxide	50	PPM by Vol.	· <u>-</u>	2000	אלק אלל /
	ω_{Z}		3 by Vol.		• • • • • • • • • • • • • • • • • • • •	
Informa- tion Data	$\infty_{\rm X}$ as $\infty_{\rm Z}$ Other	210	PPM by Vol.		, ,	
					; •	

SUMMARY: BORSBOOKSHOLTMOSPHERE Sources and Existing Sources After January I.

1975

make along the	Pan American Resources		Date Nov. 22, 1970 Tast
location	Upland, CA		io apec
Type of Geration	tion Tackherator	Process Weight	. 23G
ĝi Ei	e de maria de		
Gas Flow Rate,	, 9CFM 259		
Gas Temperature,	930 E	Marus ack	قامنية يامير عيامنية يامير
AUS SUR	Visibie Endssions	Singe Land	Magains 1:
PUE 52A	Particulate Matter	(yab) 52/820 (day)	0.20 Cr3/SCF
Ale 524(a)	Sulfur Compounds as 502	Lov ye wee	200 S MEC 0008
Fule 52A (c)	Compustion Contaminants	Grs/SGF 8 123 CD ₂	0.1 8 123 CC
त्रियाच ५५%	Solid Particulate Matter	0.0441 Lbs/भ	שיי/פתו פּדָי־ן
े हे हे अपूर्व के किस्तु के कि	oisposal of Solid and Li- guid wastes (c) loo los/bing	123 CO ₂	GHS/SG 0.1 123 CD ₂
	عد/عط! 100 (b)	Crs/SCF @	128/807 120 121 02.0
99 97	Solverts (reactive hydroctrons carbons measured as methods)	PPM Inlat PPM Curlet Spw Curlet Sconversion (155/day	96 ع (ماريم) الماريم. عمرت الماريم
File 68	Oxides of Nitrogen as NO ₂ (Thic 1775 William 2775 Willi	0 CO SC & NUCL	Cas 125 39M & 19, Oli R 255 29M & 35
7. e 7.	Carbon Monoxide	320 ye keç 028	1000 Hee 0002
	202	in S	
Tallograms and the second seco	.σ _x as πο ₂	יוסא לב אפניין אין	
	Other		
e,			



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY This Agency is authorized to require this information under tune 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

DIVISION OF AIR POLLUTION CONTROL Revised Statutes, 1979, Chapter 111 172, Section 1039, Gibbs of this information is required under that Section. Follure to units. prevent this form from being processed and could result in your application being denied. This form has been approved by the Fc Management Center.

· ,	FOR AGENCY USE ONLY
	REFERENCE I.D. NO.
•	REFERENCE PERMIT NO.
DISPOSITION OF WASTE MATERIALS (A)	DATE
(NAME OF EQUIPMENT OR PROCESS TO). ! BE CONSTRUCTED OR OPERATED (B)	DAIL
·	
PROCESS & INDUSTRIAL FABRICATION COMPANY	20. NAME OF OPERATOR: PROCESS & INDUSTRIAL FABRICATION COMPANY
15. STREET ADDRESS OF OWNER:	26. STREET ADDRESS OF OPERATOR:
6100 SW WASHINGTON STREET	6100 SW WASHINGTON STREET
1	RE. CITY OF OPERATOR: BAKTONVI LLE
BARTONVIILE id. SYATE OF OWNER: le. ZiP CODE: 2	BARTONVILLE 2d. STATE OF OPERATOR:
	TILINOIS 61607
The state of concentration of the state of t	The server appared of supplications of the server appared to the s
Ja. NAME OF CORPORATE DIVISION OF PLANT: LIVCO TRAILER SERVICE	6700 WEST 103RD STREET
3c. CITY OF EMISSION SOURCE: 3d. LOCATED WITHIN CITY 13	Be. TOWNSHIP: 3f. COUNTY: 3g. ZIP CODE:
CHICAGO RIDGE LIMITS: YES NO	COOK
	÷
4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL) C. J. BRAGG	5. TELEPHONE NUMBER FOR AGENCY TO CALL:
<u> </u>	(312) 748-7200 7. YOUR ID NUMBER FOR THIS APPLICATION:(C) .
OPERATOR EMISSION SOURCE	TOOK TO HOMOLIK TON THIS AFFEIGATION.(C).
(A) THIS FORM IS TO BE COMPLETED FOR ANY STATIONARY EMISSION SOUTHAT MAY BE DISPOSED OF IN A MANNER THAT MAY CAUSE OR TEND TO WITH MATTER FROM OTHER SOURCES OR SO AS TO VIOLATE REGULATION UNDER THE ENVIRONMENTAL PROTECTION ACT.	O cause pollution in illinois either alone or in combination $arphi$
(- (6) ENTER INFORMATION HERE FROM COMPARABLE BLOCK ON APC-200 = "J	APPLICATION FOR A PERMIT".
(C) ENTER INFORMATION IN ITEM 7 ABOVE SAME AS ITEM 7 APC-200 - "APP	•
(D) IF ADDITIONAL SPACE IS REQUIRED USE ADDITIONAL SHEETS, ATTACH A AS IT APPEARS ON THIS FORM.	NU DENTIFY INFORMATION BY APPROPRIATE BLOCK NUMBER
THIS ADDENDUM WILL BE REVIEWED BY THE DIVISION OF LAND POLLUTION OF DETAILED APPLICATION FOR A PERMIT WILL NEED TO BE SUBMITTED. THIS FO BE CONSIDERED TO BE AN APPLICATION FOR A PERMIT. PROPER APPLICATION LAND POLLUTION CONTROL, IF IT IS DEEMED THAT THE FACILITY REQUIRES A	DRM APC-103 - "DISPOSITION CF SOLID WASTE") IN ITSELF SHALL NOT N FOR PERMIT FORMS WILL BE MAILED TO YOU BY THE DIVISION OF

The general operation is for the destructive distillation of film chips into a producer gas (CO & hydrogen) and a char by processing in a destructive distillation

8. BRIEFLY DESCRIBE THE PROCESS WHICH WILL RESULT IN THE PRODUCTION OF WASTE MATERIAL:

unit at ca 1400°F in the absence of air.

٠9.	DESCRIBE THE STATE OF THE WASTE MATERIAL (SLURRY, CAKE, FINE ASH, CINDERS, POWDER, SLUDGE, WATER SUSPENDED, ETC.) AT THE APPLICANT'S PROPOSED DISPOSAL SITE:
	The char produced varies from cinders to powder (98% retained on 40 mesh screen)
i0	FOR THE WASTE STATE THE CHEMICAL COMPOSITION, EXPRESSED AS WEIGHT PERCENTAGES OF SOLID WASTE OR IN MILLIGRAMS PER LITER
	FOR LIQUIDS: 95% carbon < 5 pm cyanide
	5% hydrogen
iûa.	state volume & weight of the waste generated by this operation: Daily 26,400//Day weekly604,200///yi monthly N/A /mo. yearly N/A /yr other explain
	2007-651014-653/692
iia.	WILL THE WASTE MATERIAL BE DEPOSITED IN A SANITARY LANDFILL PERMITTED BY THE ENVIRONMENTAL PROTECTION AGENCY?
	X YES NO
ПЬ.	IF THE ANSWER TO IG IS "YES", STATE THE NAME AND AGENCY SUPPLEMENTAL PERMIT NUMBER OF SUCH SITE.
	NAME Unknown at present Supplemental PERMIT NO.
120:	WILL THE WASTE MATERIAL BE STORED OR PROCESS AT THE APPLICANT PLANT OR PREMISES? YES NO
i2b.	IF THE ANSWER TO 12. IS "YES", EXPLAIN.
12	WILL THE WASTE MATERIAL BE TRANSPORTED TO A REMOTE SITE FOR STORAGE, PROCESSING, OR DISPOSAL? YES NO
136.	will the waste material be transported to a remote site for storage, processing, or disposal? Yes No if the answer to 13. Is "Yes", explain. The char will be transported to a land fill for disposal or the material will be sold to a asphalt plant for incorporation in road surfacing material.
i4a.	WILL THE WASTE MATERIAL BE INCINERATED?
	IF THE ANSWER TO 146 IS "YES", EXPLAIN.
	and the control of the
15a.	IF THE WASTE WILL BE DISPOSED OR UTILIZED IN A MANNER NOT OTHERWISE DESCRIBED, STATE THE METHOD OF UTILIZATION OR DISPOSAL TO BE USED AND THE OWNER AND LOCATION OF THE DISPOSAL OR PROCESSING FACILITY AND EXPLAIN.
•	
	N/A . The state of the state

.....



STATE OF ELLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

This agency is authorized to common this information under thinds Remard Statutes, 1979. Chapter this, Centron 1989. Disciouse of this monoton is required under that remove, thurs to do so may prevent this form from being processes and could result in your application being aimed. This form has been approved by the Forms Management Center.

*DATA AND INFORMATION FUEL COMBUSTION EMISSION SOURCE

*THIS INFORMATION FORM IS TO BE COMPLETED FOR A FURNACE, SOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN EMISSION SOURCE THAT DOES NOT FIT THIS DESCRIPTION, INCLUDING AN EMISSION SOURCE OR AN INCINERATOR.

1. NAME OF OWNER: LIVCO TRAILER SERVICE	 NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER); 			
3. STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE: CHICAGO RIDGE, IL.			
GENERAL	INFORMATION			
5. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE:	- ATTACHMENT WITH FORM 220			
6. MANUFACTURER: PROCESS & INDUSTRIAL FABRICATION COMPANY	7. MODEL NUMBER: 8. SERIAL NUMBER: PIFCO TAG #1			
9. AVERAGE OPERATING TIME OF EMISSION SOURCE: N/A HRS/DAY DAYS/WK WKS/YR	10. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK VARIOUS/YR			
11. PERCENT OF ANNUAL HEAT INPUT: N/Aec-feb % mar-may % jun-aug	% SEP-NOV %			

INSTRUCTIONS

- COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION.
- 2. COMPLETE THE APPROPRIATE FUEL SECTION OR SECTIONS. IF MORE THAN ONE FUEL IS FIRED OR IF THE CAPABILITY EXISTS TO FIRE MORE THAN ONE FUEL, THE ACTUAL USAGE OF FUELS AND THE RELATIONSHIP BETWEEN FUELS, SIMULTANEOUS FIRING, ALTERNATE FIRING, RESERVE FUEL, ETC., MUST BE MADE CLEAR.
- 3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
- 4. FIRING RATES AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES.
- 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS." APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

A VERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD.

AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE
OPERATING TIME.

AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FROM THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATION FOR ANY TWELVE MONTH PERIOD.

MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION.

MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

GAS FIRING					
*11. ORIGIN OF GAS: DISTILLATE FUEL OTHER LIQUID FUEL SOLID FUEL BYRODUCT: DIOCUCET gas from PIPELINE OIL GASIFICATION GASIFICATION GASIFICATION SPECIFY SOURCE GESTURE TIME DISTRIBUTION					
12. ARE YOU ON AN INTERRUPTABLE GAS SUPPLY: YES X NO IF "YES", SPECIFY ALTERNATE FUEL:					
13. ANNUAL CONSUMPTION: + 14. HEAT CONTENT: + 15. SULFUR CONTENT:					
N/A SCF 554 STU/SCF NIL SSBY WT.					
16. AVERAGE FIRING RATE: 28.6 MM BTU/HR 5TU/HR					
TF THE GAS FIRED IS NATURAL GAS, THESE ITEMS NEED NOT DE COMPLETED.					
O/L FIRING					
18. TYPE OF OIL: GRADE NUMBER: 1 2 4 5 6 OTHER: SPECIFY					
19. ANNUAL CONSUMPTION: 20. HEAT CONTENT: [6TU/LD]					
GALLONS					
21. SULFUR CONTENT: 22. ASH CONTENT: %3Y WT %3Y WT					
23. DIRECTION OF FIRING: HORIZONTAL TANGENTIAL OTHER: SPECIFY					
24. AVERAGE FIRING RATE: 25. MAXIMUM FIRING RATE: 8TU/HR					
SOLID FUEL FIRING					
26. TYPE OF SOLID FUEL: SUB-BITUMINOUS COAL BITUMINOUS COAL ANTHRACITE COAL OTHER: SPECIFY					
27. ANNUAL CONSUMPTION: 28. HEAT CONTENT AS FIRED: 5TU/L3					
29. MOISTURE CONTENT AS FIRED: 30. ASH CONTENT AS FIRED: 31. SULFUR CONTENT AS FIRED:					
%BY WT \ %BY WT \ %BY WT					
TYPE OF FIRING: CYCLONE PULVERIZED WET BOTTOM OR DRY BOTTOM,					
HORIZONTALLY OPPOSED OR OTHER: SPECIFY					
SPREADER STOKER: % REINJECTION OTHER: SPECIFY					
33. AVERAGE FIRING RATE: 34. MAXIMUM FIRING RATE:					
BTU/HR BTU/HR					
SUBMIT COPIES OF THOSE PORTIONS OF COAL OR OTHER SOLID FUEL CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF SOLID FUELS, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND SET FORTH THE MANNER IN WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. REFERENCE THIS INFORMATION TO THIS FORM.					

			· ·	*EMISS	ION INFORMATIO	ON		
35. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):								
				AVER	age operation			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE			ENTICAL		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION PATE		
PARTICULATE MATTER	360.		GR/SCF	0.	о му/10 ⁶ ати ! о му/на	с.		
CARSON MONOXIDE	37a.		PPM (VOL)	b.	⊡	c.		
nitrogen Oxides	380.		PPM (VOL)	Ь.	⊡ £5/10 ⁶ 87U □ £5/HR	с.		
ORGANIC MATERIAL	39a.		PPM (VOL)	ь.	□ L3/10 ⁶ 6TU □ L3/HR	с.		
SULFUR DIOXIDE	40a.		PPM (VOL)	b.	□ L3/10 ⁶ 3TU □ L3/F3	с.		
				MAX	IMUM OPERATION	1		
CONCENTRATION OR EMISSION RATE PER IDENTICAL						METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE		
PARTICULATE MATTER	41a.	.0517	GR/SCF	ъ. 0.4195	© L3/10 ⁶ BTU □ L5/HR	:.		
CARBON MONOXIDE	42a.	50	PPM (VOL)	b.	□ L3/10 ⁶ BTU □ L3/HA	с.	CALIFORNIA RULE 71	
nitro gen oxides	430.	. 210	PPM (VOL)	b.	□ L3/10 ⁶ BTU □ LB/HR	с.	AS NO 2 CHEMILUMINESCENCE	
ORGANIC MATERIAL	440.	NIL	PPM (VOL)	ь.	□ L3/10 ⁶ BTU □ L3/HR	с.		
SULFUR DIOXIDE	450.	NIL	PPM (VOL)	b.	_ L3/10 ⁶ BTU □ L3/HR	c.		

	**EXHAUST POINT INFORMATION					
46.	FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT:					
47.	DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUIL	LDINGS, DIRECTION, HOODING, ETC.):				
48.	EXIT HEIGHT ABOVE GRADE:	50. EXIT DIAMETER:				
49.	GREATEST HEIGHT OF NEARBY BUILDINGS:	, 51. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:				
	average operation	MAXIMUM OPERATION				
52.	EXIT GAS TEMPERATURE:	54. EXIT GAS TEMPERATURE:				
53.	GAS FLOW RATE THROUGH EACH EXIT:	55. GAS FLOW RATE THROUGH EACH EXIT: ACFM				

^{**}IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT THIS SECTION SHOULD NOT BE COMPLETED.

^{*}IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT, OR IF NATURAL GAS IS THE FUEL FIRED, ITEMS 36 THROUGH 47 NEED NOT BE COMPLETED.

